

FIG.

FIG.

2

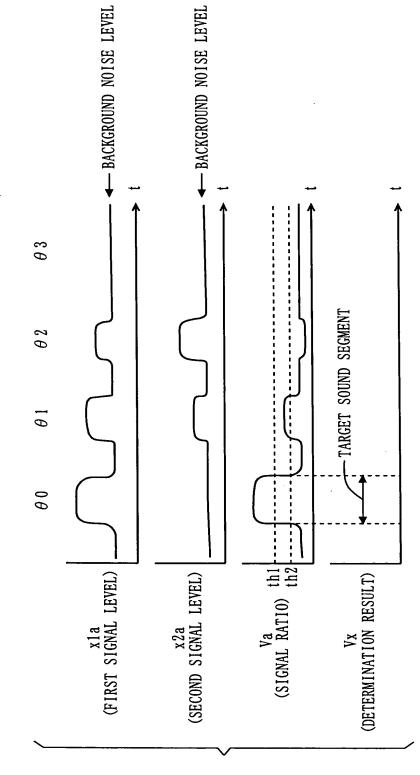
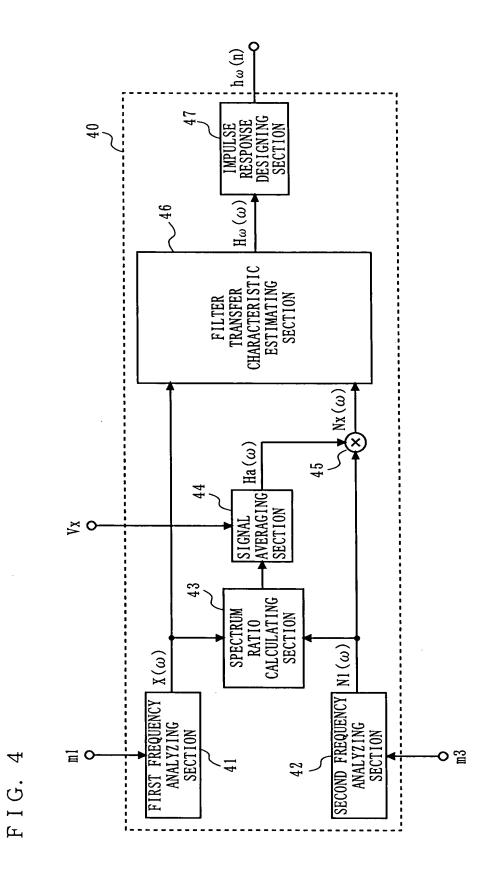
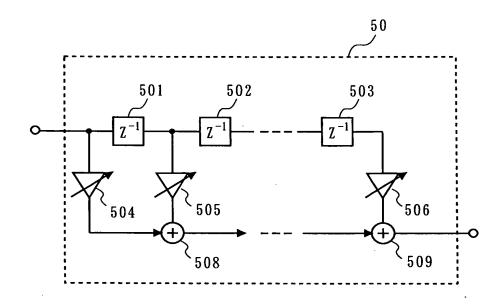
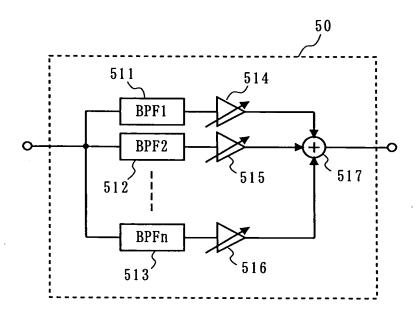


FIG. 3

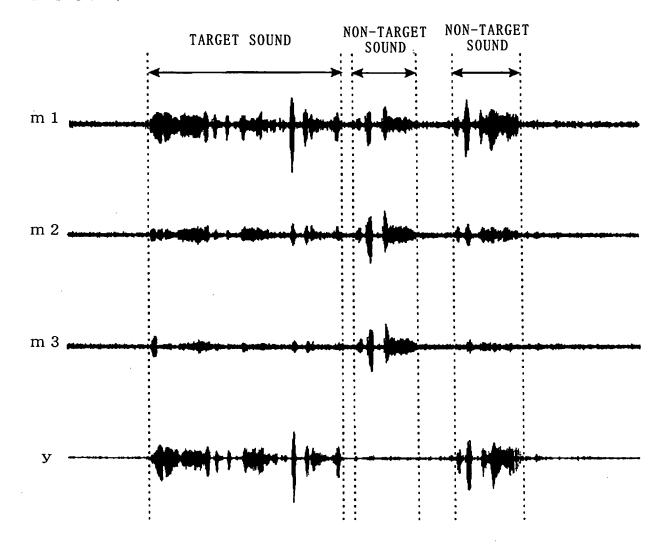




F I G. 6



F I G. 7



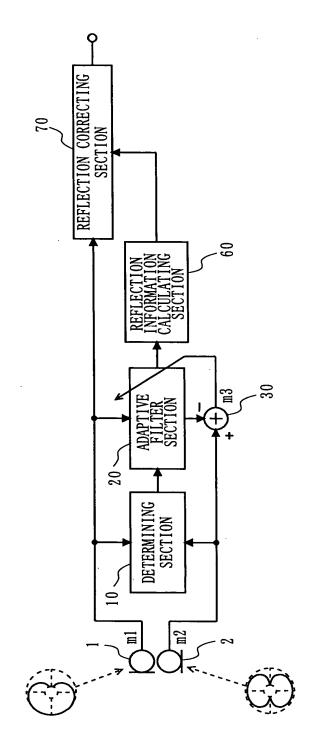


FIG. 8

10 k 10 k SOUND PRESSURE FREQUENCY CHARACTERISTIC OF MAIN SIGNAL m1 fa=1/dt Frequency(Hz) fb=1/2dtFrequency(Hz) (a3) (p3) Sensitivity (dB) Sensitivity (dB) 0 0 FILTER COEFFICIENT OF ADAPTIVE FILTER SECTION 20 0(msec) (msec) (a2)(b2)0.3 0.3 0 APPROXIMATELY 20 cm REFLECTIVE POSITIONAL RELATIONSHIP APPROXIMATELY APPROXIMATELY 50 cm **OBJECT** 50 cm (a1) (b1) TALKER TALKER REFLECTIVE REFLECTIVE OBJECT OBJECT

FIG. 9

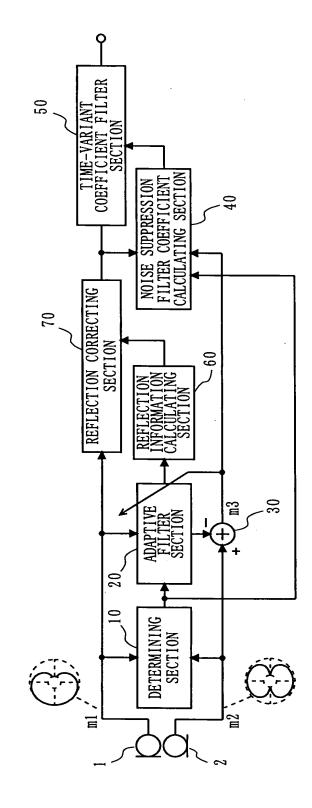


FIG. 1

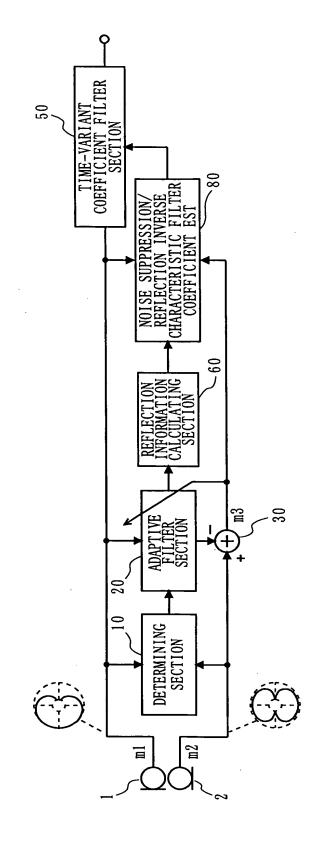


FIG. 1

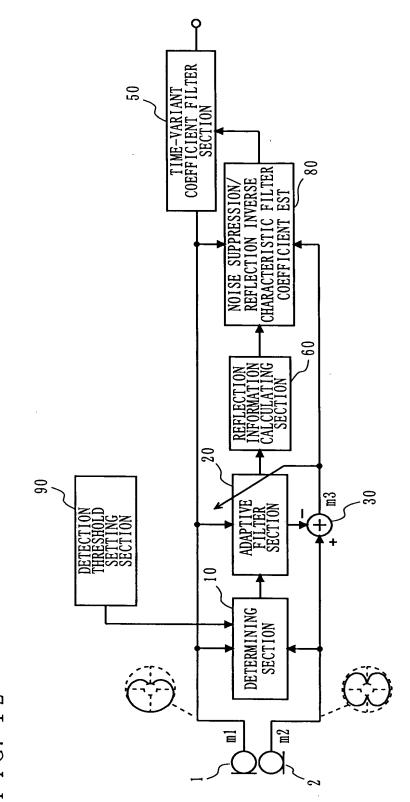
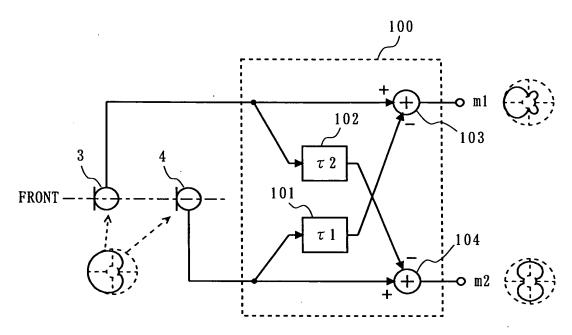


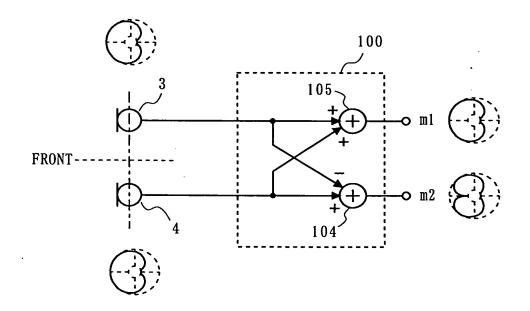
FIG. 12

 θ 1 FIG. 13C 1 3 B FIG. FIG. 13A

F I G. 14



F I G. 15



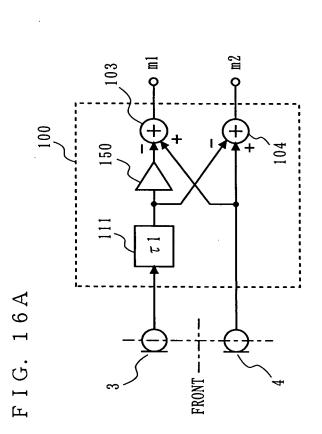
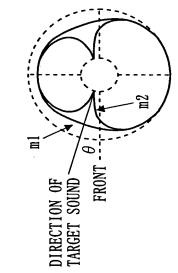
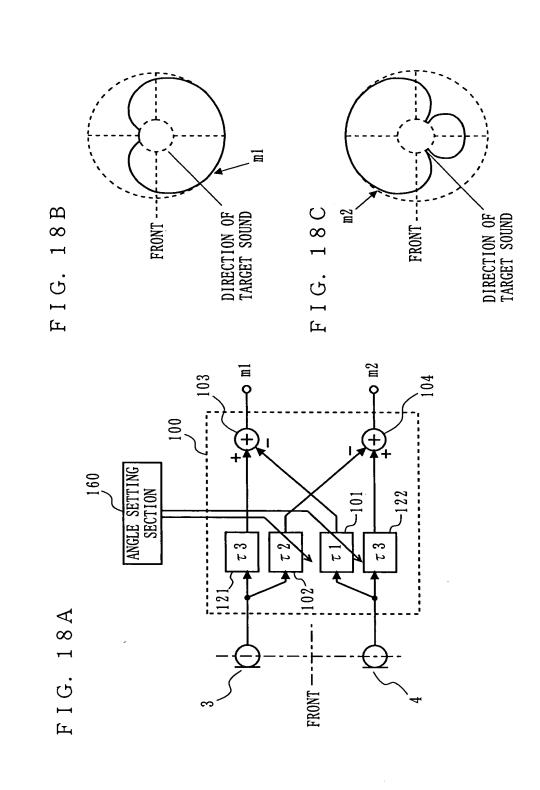
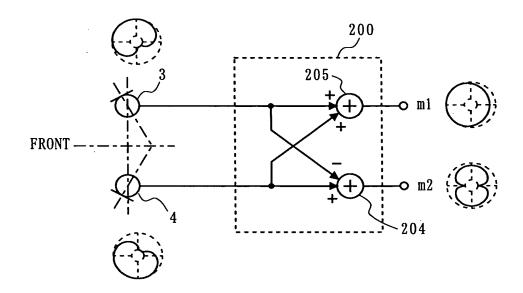


FIG. 16B



FRONT ---- + DIRECTION OF / TARGET SOUND FIG. 17B FIG. 17C FRONT. DIRECTION OF TARGET SOUND -2Ⅲ **♀** [무 100 ANGLE SETTING SECTION 160 FIG. 17A FRONT ---





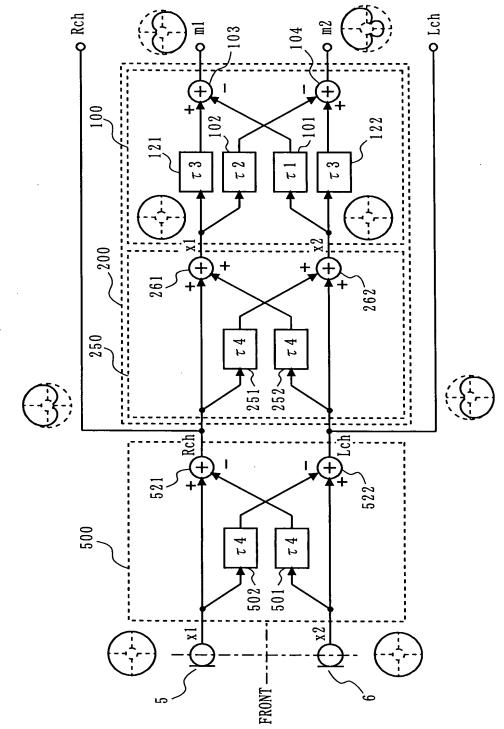


FIG. 20

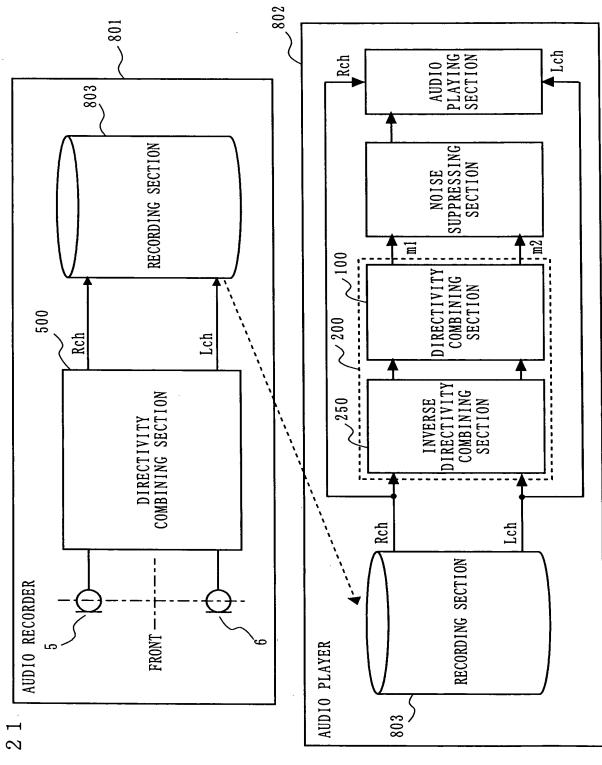


FIG. 21

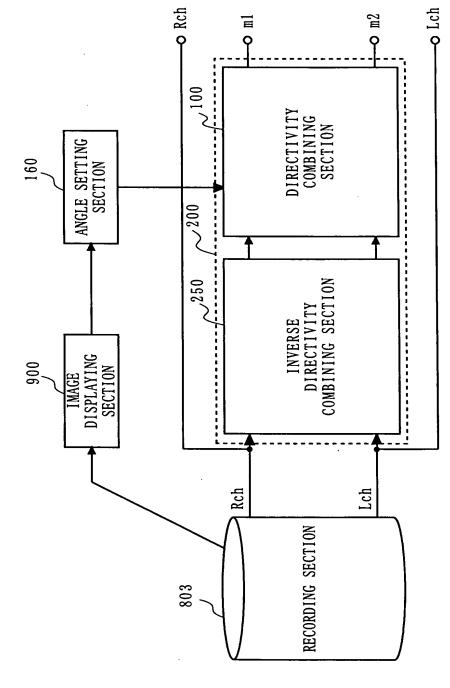


FIG. 22

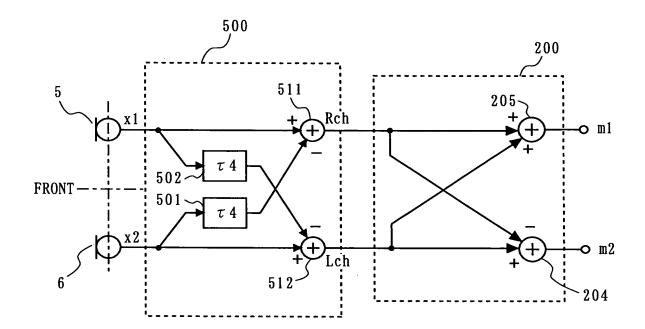


FIG. 24 PRIOR ART

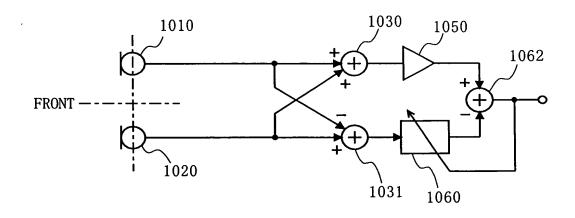
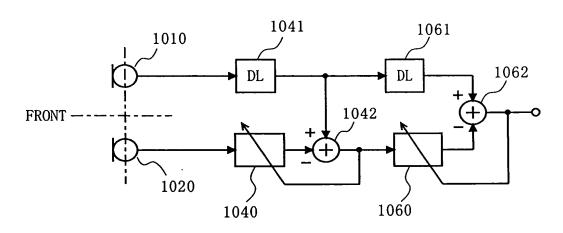


FIG. 25 PRIOR ART



VOICE RECOGNITION SECTION TWO-INPUT-TYPE SPECTRUM SUBTRACTION SECTION 1070 1080 FFT FFT FIG. 26 PRIOR ART . 겥 m 1011